

Batuhan Usluel

SOFTWARE ENGINEER

+1 (781) 354-2673 | [Email](#) | [Website](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science + Economics

Jan 2022 – May 2024

Major GPA: 3.83/4.00

Purdue University

Bachelor of Science in Computer Science

Aug 2020 – Dec 2021

GPA: 3.56/4.00

EXPERIENCE

CME Group

Software Engineer

Chicago, IL

June 2024 – Present

- Currently working on **Java-based real-time risk management systems** using Spring Boot and Kafka
- Using in-memory databases for live risk / margin calculations
- Worked on a full-stack application designed at improving developer experience
- Collaborated with development teams to design and implement custom integrations with internal services, streamlining developer workflows and significantly reducing friction in software discovery and deployment

Software Engineer Intern

May 2023 – Aug 2023, May 2022 – Aug 2022

- Designed dynamic validators for trading infrastructure using Java, enabling seamless configurations and revolutionizing software testing flexibility
- Reduced execution time by **85%**, significantly improving software development and QA processes
- Implemented automated alerts via **Splunk**, reducing manual checks and increasing system reliability
- Leveraged **Kafka** for real-time streaming, reducing system downtime and enhancing reliability metrics
- Implemented a comparative analysis feature, allowing for real-time contrast between established outputs and new prototype versions, enhancing quality checks

PROJECTS

Solana Trading System | Python, Nodejs, sklearn, PostgreSQL, AWS

Mar 2024 – June 2024

- Developed a machine learning-driven **trading system** using multiple ML models to predict price movements of newly launched Solana-based cryptocurrencies
- Achieved **1500% returns (\$50 to \$800)** within one week during peak performance, trading more than 1,000 coins
- Deployed and maintained a **dedicated Solana validator node** to optimize trade execution speed and minimize latency
- Implemented data processing pipelines integrating **blockchain data, social media metrics, website info** (such as whois & technologies used) and **trading patterns**

AI-Powered Chatbot for Customer Support | Javascript, Node.js, React, Docker

June 2023 – Nov 2023

- Developed a full-stack **AI-powered chatbot** using GPT-4 for enhanced Shopify customer support
- Utilized **vector databases** to index store pages and products, enabling on-demand retrieval and presentation of relevant information
- Built a responsive frontend using React and JavaScript, ensuring an intuitive user experience
- Engineered a scalable backend with Node.js and Express, deployed and managed on AWS

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript

Frameworks: React, Node.js, Express.js, Django, JUnit, Spring

Developer Tools: Git, Docker, Google Cloud, AWS, Postman, Bamboo, Kafka, Jenkins, Confluence, JIRA, Nexus, Ansible

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Langchain